

CLAIMS

1. A test fixture, comprising:
 - 2 a communications device simulator;
 - an access point simulator; and
 - 4 a controller coupled to the communications device simulator and the access point simulator.
2. The test fixture of claim 1 wherein the communications device simulator comprises a subscriber station simulator, and the access point simulator comprises a base station controller simulator.
3. The test fixture of claim 2 wherein the subscriber station simulator comprises a mobile data communications device simulator.
4. The test fixture of claim 2 wherein the subscriber station simulator comprises a mobile telephone simulator.
5. The test fixture of claim 1 further comprising a simulator board having the communications device simulator and the access point simulator thereon.
6. The test fixture of claim 1 wherein the access point simulator comprises an Ethernet port configured to communicate with a unit under test.
7. The test fixture of claim 1 wherein the communications device simulator is configured to communicate with a unit under test through a wireless link.
8. The test fixture of claim 7 wherein the communications device simulator is configured to communicate with the unit under test using code division multiple access

9. The test fixture of claim 8 wherein the communications device simulator is further configured to communicate with the unit under test using code and time division multiple access.

10. The test fixture of claim 1 wherein the controller is configured to correlate in real time communications of both the communications device simulator and the access point simulator with a unit under test.

11. The test fixture of claim 1 wherein the communications device simulator is configured to establish a first communications link with a unit under test, and in response to the establishment of the first communications link, the access point simulator is configured to establish a second communications link with the unit under test for the communications device simulator.

12. A test fixture, comprising:
a communications device simulator;
an access point simulator; and
a simulator board having the communications device simulator and the access point simulator thereon.

13. The test fixture of claim 12 wherein the communications device simulator comprises a subscriber station simulator, and the access point simulator comprises a base station controller simulator.

14. The test fixture of claim 13 wherein the subscriber station simulator comprises a mobile data communications device simulator.

15. The test fixture of claim 13 wherein the subscriber station simulator comprises a mobile telephone simulator.

16. The test fixture of claim 12 wherein the access point simulator comprises an Ethernet port configured to communicate with a unit under test.

17. The test fixture of claim 12 wherein the communications device simulator is configured to communicate with a unit under test through a wireless link.

18. The test fixture of claim 17 wherein the communications device simulator is configured to communicate with the unit under test using code division multiple access

19. The test fixture of claim 18 wherein the communications device simulator is further configured to communicate with the unit under test using code and time division multiple access.

20. The test fixture of claim 12 further comprising a controller coupled to the communications device simulator and the network access simulator.

21. The test fixture of claim 20 wherein the controller is configured to correlate in real time communications of both the communications device simulator and the access point simulator with a unit under test.

22. The test fixture of claim 12 wherein the communications device simulator is configured to establish a first communications link with a unit under test, and in response to the establishment of the first communications link, the access point simulator is configured to establish a second communications link with the unit under test for the communications device simulator.

23. A method of testing a unit, comprising
simulating a communications device to communicate with a unit under test;
simulating an access point to communicate with the unit under test; and
correlating in real time the communications of the simulated communications device and the simulated access point.

24. The method of claim 23 wherein the simulation of the communications device is configured to communicate with the unit under test using a wireless link.

25. The method of claim 24 wherein the simulation of the communications device is further configured to communicate with the unit under test using code division multiple access to communicate with the unit under test.

26. The method of claim 25 wherein simulation of the communications device is further configured to communicate with the unit under test using code and time division multiple access to communicate with the unit under test.

27. The method of claim 23 wherein the simulation of the access point is configured to communicate with the unit under test using an Ethernet connection.

28. The method of claim 23 wherein the simulation of the communications device is configured to establish a first communications link with the unit under test, and the simulation of the access point is configured to attempt to establish a second communications link with the unit under test for the simulated communications device in response to the establishment of the first communications link.

29. The method of claim 28 wherein the correlation of the communications of the simulated communications device and the simulated access point comprises declaring a fault if the second communications link is not established in response to the establishment of the first communication link.

30. The method of claim 23 wherein the simulation of the communications device comprises simulating a subscriber station to communicate with the unit under test, and the simulation of the access point comprises simulating a base station controller to communicate with the unit under test.

31. A method of testing a unit, comprising:
communicating between a communications device simulator and a unit under test;
communicating between an access point simulator and the unit under test;

generating data by each of the simulators in response to its respective
6 communications; and
coupling the data from each of the simulators to a controller to evaluate the
8 unit under test.

32. The method of claim 31 wherein the controller evaluates the data from each of
2 the simulators in real time.

33. The method of claim 31 wherein the communications between the
2 communications device simulator and the unit under test is performed over a wireless link.

34. The method of claim 33 wherein the communications between the
2 communications device simulator and the unit under test is performed using code division
multiple access.

35. The method of claim 34 wherein the communications between the
2 communications device simulator and the unit under test is performed using code and time
division multiple access.

36. The method of claim 31 wherein the communications between the access point
2 simulator and the unit under test is performed over an Ethernet network.

37. The method of claim 31 wherein the communications between the
2 communications device simulator and the unit under test comprises establishing a first
communications link, and the communications between the access point simulator and the
4 unit under test comprises attempting to establish a second communications link for the
simulated communications device in response to the establishment of the first
6 communications link.

38. The method of claim 37 wherein the evaluation of the data by the controller
2 comprises declaring a fault if the second communications link is not established in response
to the establishment of the first communication link.

39. The method of claim 31 wherein the communications device simulator comprises a subscriber station simulator, and the access point simulator comprises a base station controller simulator.

40. The method of claim 39 wherein the subscriber station simulator comprises a mobile data communications device simulator.

41. The method of claim 39 wherein the subscriber station simulator comprises a mobile telephone simulator.

42. A test fixture, comprising:
 first simulation means for simulating a communications device;
 second simulation means for simulating an access point; and
 controller means, coupled to the first and second means, for evaluating a unit under test.

43. The test fixture of claim 42 wherein the first simulation means comprises means for simulating a subscriber station, and the second simulation means comprises means for simulating a base station controller simulator.

44. The test fixture of claim 43 wherein the means for simulating a subscriber station comprises means for simulating a mobile data communications device.

45. The test fixture of claim 43 wherein the means for simulating a subscriber station comprises means for simulating a mobile telephone.

46. The test fixture of claim 42 further comprising a simulator board having the first and second simulation means thereon.

47. The test fixture of claim 42 wherein the second simulation means comprises means for communicating with the unit under test over an Ethernet network.

48. The test fixture of claim 42 further comprising means for interfacing the first
2 simulation means with the unit under test over a wireless link.

49. The test fixture of claim 48 wherein first simulation means further comprises
2 means for communicating with the unit under test using code division multiple access.

50. The test fixture of claim 49 wherein the first simulation means further
2 comprises means for communicating with the unit under test using code and time division
multiple access.

51. The test fixture of claim 42 wherein the controller means comprises means for
2 for evaluating the unit under test in real time.

52. The test fixture of claim 42 wherein the first simulation means comprises
2 means for establishing a first communications link with the unit under test, and the second
simulation means comprises means for establishing a second communications link with the
4 unit under test for the simulation means in response to the establishment of the first
communications link.

53. Computer readable media embodying a method of testing a unit, the method
2 comprising:
4 simulating a communications device to communicate with a unit under test;
 simulating an access point to communicate with the unit under test; and
 correlating in real time the communications of the simulated communications
6 device and the simulated access point.

54. The computer readable media of claim 53 wherein the simulation of the
2 communications device is configured to communicate with the unit under tests using a
wireless link.

55. The computer readable media of claim 54 wherein the simulation of the communications device is further configured to communicate with the unit under test further comprises using code division multiple access.

56. The computer readable media of claim 55 wherein simulation of the communications device is further configured to communicate with the unit under test using code and time division multiple access.

57. The computer readable media of claim 53 wherein the simulation of the access point is configured to communicate with the unit under test using an Ethernet connection.

58. The computer readable media of claim 53 wherein the simulation of the communications device is configured to establish a first communications link with the unit under test, and the simulation of the access point is configured to attempt to establish a second communications link with the unit under test for the simulated communications device in response to the establishment of the first communications link.

59. The computer readable media of claim 58 wherein the correlation of the communications of the simulated communications device and the simulated access point comprises declaring a fault if the second communications link is not established in response to the establishment of the first communication link.

60. The computer readable media of claim 53 wherein the simulation of the communications device comprises simulating a subscriber station to communicate with the unit under test, and the simulation of the access point comprises simulating a base station controller to communicate with the unit under test.